



**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR RESOURCES**

OPERATING PERMIT

Dominion Energy Manchester Street, Inc.

PERMIT NO. RI-22-02 (R4)

(Expiration date: June 26, 2007)

Pursuant to the provisions of Air Pollution Control Regulation No. 29, this operating permit is issued to:

Dominion Energy Manchester Street, Inc.
40 Point Street
Providence RI, 02903

This permit shall be effective from the date of its issuance. All terms and conditions of the permit are enforceable by EPA and citizens under the federal Clean Air Act, 42 U.S.C. 7401, et seq., unless specifically designated as not federally enforceable.

**Stephen Majkut, Chief
Office of Air Resources**

Date of revision:

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SECTION I. SOURCE SPECIFIC CONDITIONS

A. Requirements for Emissions Units G009, G010 and G011

The following requirements are applicable to:

- Emission units G009, G010 and G011, each of which is a 119.05 MW Siemens Westinghouse Power Corporation combustion turbine, Model No. V84.2, capable of burning #2 fuel oil and natural gas. Emission units G009, G010 and G011 are equipped with air pollution control device C009, C010 and C011 respectively, which are Mitsubishi Heavy Industries, LTD. Catalytic Reduction (SCR) system.

1. Emission Limitations

a. Natural Gas Firing

(1) Nitrogen oxides (as nitrogen dioxide (NO₂))

- (a) The concentration of nitrogen oxides discharged to the atmosphere from each stack shall not exceed 9 ppmv, on a dry basis, corrected to 15 percent O₂ (1-hour average). [RI-PSD-4 A.1.a.(1), 40 CFR 60.332(a)(1)]
- (b) The emission rate of nitrogen oxides discharged to the atmosphere from each stack shall not exceed 47.5 lbs/hr. [RI-PSD-4 A.1.a.(2), 40 CFR 60.332(a)(1)]

(2) Carbon Monoxide (CO)

- (a) The concentration of carbon monoxide discharged to the atmosphere from each stack shall not exceed 11 ppmv, on a dry basis, corrected to 15 percent O₂ (1-hour average). [RI-PSD-4 A.1.b.(1)]
- (b) The emission rate of carbon monoxide discharged to the atmosphere from each stack shall not exceed 29.5 lbs/hr. [RI-PSD-4 A.1.b.(2)]

(3) Sulfur Dioxide (SO₂)

- (a) The concentration of sulfur in the natural gas consumed in any fuel burning equipment at this facility shall not exceed 20 grains per 100 standard cubic foot (scf). [RI-PSD-4 A.1.c.(1)]

- (b) The emission rate of sulfur dioxide discharged to the atmosphere from each stack shall not exceed 73.13 lbs/hr. [RI-PSD-4 A.1.c.(2), 40 CFR 60.333(b)]

(4) Particulate Matter

The emission rate of particulate matter discharged to the atmosphere from each stack shall not exceed 0.005 lbs per million BTU heat input (HHV) or a maximum of 6.53 lbs/hr, which ever is more stringent. [RI-PSD-4 A.1.d.(1)]

(5) Total Nonmethane Hydrocarbons (NMHC)

- (a) The concentration of total nonmethane hydrocarbons discharged to the atmosphere from each stack shall not exceed 5.0 ppmv, on a dry basis, corrected to 15 percent O₂ (1-hour average). [RI-PSD-4 A.1.e.(1)]
- (b) The emission rate of total nonmethane hydrocarbons discharged to the atmosphere from each stack shall not exceed 7.0 lbs/hr. [RI-PSD-4 A.1.e.(2)]

b. Fuel Oil Firing

(1) Nitrogen Oxides (as nitrogen dioxide (NO₂))

- (a) The concentration of nitrogen oxides discharged to the atmosphere from each stack flue shall not exceed 15 ppmv, on a dry basis, corrected to 15 percent O₂ (1-hour average). [RI-PSD-4 A.2.a.(1)]
- (b) The emission rate of nitrogen oxides discharged to the atmosphere from each stack shall not exceed 78.78 lbs/hr. [RI-PSD-4 A.2.a.(2)]
- (c) The total quantity of nitrogen oxides discharged to the atmosphere from the three combustion turbines combined, during discretionary oil firing, shall not exceed 4000 lbs per calendar month based upon a 12-month rolling average. [RI-PSD-4 A.2.a.(3)]

(2) Carbon Monoxide (CO)

- (a) The concentration of carbon monoxide discharged to the atmosphere from each stack shall not exceed 12 ppmv, on a dry basis, corrected to 15 percent O₂ (1-hour average). [RI-PSD-4 A.2.b.(1)]

- (b) The emission rate of carbon monoxide discharged to the atmosphere from each stack shall not exceed 39.1 lbs/hr. [RI-PSD-4 A.2.b.(2)]

(3) Sulfur Dioxide (SO₂)

- (a) The permittee shall not use fuel oil in any turbine or store fuel oil for use in any turbine with a sulfur content greater than 0.05 percent by weight. [RI-PSD-4 A.2.c.(1)]
- (b) The emission rate of sulfur dioxide discharged to the atmosphere from each stack shall not exceed 63.8 lbs/hr. [RI-PSD-4 A.2.c.(2)]
- (c) The total quantity of sulfur dioxide discharged to the atmosphere from the three combustion turbines combined, during discretionary oil burning, shall not exceed 3211.2 lbs/day. [RI-PSD-4 A.2.c.(3)]

(4) Particulate Matter

The emission rate of particulate matter discharged to the atmosphere from each stack shall not exceed 0.01 lbs per million BTU heat input (HHV) or a maximum of 11.9 lbs/hr whichever is more stringent. [RI-PSD-4 A.2.d.(1)]

(5) Total Nonmethane Hydrocarbons (NMHC)

- (a) The concentration of total nonmethane hydrocarbons discharged to the atmosphere from each stack shall not exceed 5.0 ppmv, on a dry basis, corrected to 15 percent O₂ (1-hour average). [RI-PSD-4 A.2.e.(1)]
- (b) The emission rate of total nonmethane hydrocarbons discharged to the atmosphere from each stack shall not exceed 6.8 lbs/hr. [RI-PSD-4 A.2.e.(2)]

c. Opacity

Visible emissions from G009, G010 and G011 shall not exceed 10% opacity (six minute average). [RI-PSD-4 C.2] Where the presence of uncombined water is the only reason for failure to meet this requirement, such failure shall not be a violation of this permit. [1.4]

2. Operating Requirements

- a. Oil use, for G009, G010 and G011, shall be limited to that needed to maintain oil system readiness and times when natural gas is unavailable, and, during the period 1 October to 30 April, on a discretionary basis as limited by this permit. This limitation on discretionary oil burning shall not apply to oil burned when natural gas is unavailable or when operating to maintain oil system readiness. Maintenance of oil system readiness is limited to burning oil for the purposes of ensuring adequate fuel flow, monitoring and adjusting operating parameters and testing emissions.

Natural gas shall be deemed unavailable in cases of interruption in supply or transportation resulting from equipment failure, regulatory actions or interruption of supply outside of the control of the permittee.

Natural gas shall be deemed unavailable if:

- (1) ISO-New England has declared a “Cold Weather Event” pursuant to Market Rule 1, Appendix H, “Operations During Cold Weather Conditions”. The permittee may utilize fuel oil for each Operating Day (12AM-12PM) that this condition exists; or,
- (2) ISO-New England has declared a “Cold Weather Watch” or a “Cold Weather Warning” pursuant to Market Rule 1, Appendix H, “Operations During Cold Weather Conditions” and either ISO-New England has forecast ISO New England Operating Procedure No. 4 conditions in its Morning Report or as revised/updated during the Operating Day, or has taken any action under ISO New England Operating Procedure No. 4. The permittee may utilize fuel oil for the 24-hour period between issuance of the Morning Reports (9AM Day 1 to 9AM Day 2) that this condition exists;

Natural gas shall not be deemed unavailable on the basis of any increase in the cost of supply or transportation or allocation of available natural gas to other facilities within the control of the permittee.

If natural gas is unavailable, the permittee may utilize fuel oil, with sulfur content of 0.05 percent or less by weight, as replacement fuel. [RI-PSD-4 C.1]

- b. C009, C010 and C011 shall be operated and maintained according to their design specifications and in a manner consistent with good air pollution control practices for minimizing emissions. [16.1]
- c. The permittee shall limit the combined quantity of fuel oil combusted during discretionary oil burning to 6,615,000 gallons or less for any consecutive 12-month period. [RI-PSD-4 C.3]

3. Testing Requirements

a. Sulfur Dioxide

- (1) The permittee shall sample the natural gas for sulfur content every six months. The sampling shall be conducted using either ASTM reference methods D1072-80, D3031-81, D3246-81, D4084 82 or other EPA approved methods. [Letter dated September 26, 1995 from John F. DeVillars of the USEPA to Mark E. Slade of new England Power Company, RI-PSD-4 G.14, 60.334(b), 60.334(b)(2)]
- (2) The permittee shall have each delivery of fuel oil analyzed for sulfur content and trace metals. If multiple deliveries are made from a common source, an analysis of the source may be used. Trace metals analysis shall include antimony, arsenic, barium beryllium, cadmium, chromium (total and hexavalent), lead, mercury, nickel and vanadium. The fuel oil must be sampled and analyzed according to ASTM methods Records of the fuel oil analyses shall be maintained by the permittee. [RI-PSD-4 G.6]

b. Nitrogen Oxides

Fuel sampling of the natural gas for nitrogen content is waived in its entirety if the permittee continues to use pipeline quality natural gas. [Letter dated September 26, 1995 from John F. DeVillars of the USEPA to Mark E. Slade of New England Power Company, RI-PSD-4 G.14, 60.334(b), 60.334(b)(2)]

4. Monitoring Requirements

- a. Continuous emission monitoring equipment shall be operated and maintained in the exhaust stream of G009, G010 and G011 for opacity, nitrogen oxides, carbon monoxide, sulfur dioxide, carbon dioxide and oxygen. [RI-PSD-4 D.1, 40 CFR 75.10(a)(1)-(4)]
- b. Data shall be monitored continuously in accordance with the applicable requirements of 40 CFR 60 and 40 CFR 75. [RI-PSD-4 D.4, 40 CFR 60.13(e), 40 CFR 75.10(d)]
- c. The continuous monitors for G009, G010 and G011, for sulfur dioxide, opacity, nitrogen oxides and carbon dioxide, must satisfy EPA performance specifications and quality assurance procedures in 40 CFR 75, Appendices A, B, and F. The continuous emission monitors for G009, G010 and G011, for carbon monoxide must satisfy EPA performance specifications and quality assurance procedures in 40 CFR 60, Appendix B and Appendix F, respectively. The continuous emission monitors for G009, G010 and G011, for ammonia must satisfy the performance

specifications and quality assurance procedures in the permittees' Quality Assurance/Quality Control Plan for Continuous Emission Monitors. [RI-PSD-4 D.2]

d. Nitrogen Oxides

- (1) The permittee and, to the extent applicable, the NO_x authorized account representative shall comply with the monitoring requirements of APC Regulation No. 41, Section 41.10 and subpart H of 40 CFR Part 75. [41.10.1(a)]
- (2) The permittee shall install, certify, operate and maintain, in accordance with the requirements of 40 CFR Part 75 and Section 41.10 of Air Pollution Control Regulation No. 41, a NO_x continuous emission monitoring system (consisting of the NO_x pollutant concentration monitor, the CO₂ diluent gas monitor and a data acquisition and handling system) to measure NO_x emission rate. Heat input shall be determined using stack flow and the CO₂ diluent gas monitor. [41.10.2(a)(3), 40 CFR 75.10(a)(2), 40 CFR 75.71(c)(2), 40 CFR 75, Appendix F(5)]
- (3) The NO_x continuous emission monitoring system must meet the initial certification and recertification requirements in Section 41.10.3(b) of APC Regulation No. 41, and the quality assurance and quality control requirements in 40 CFR 75.21 and Appendix B of 40 CFR Part 75. [41.10.2(a)(3), 41.10.3(a)(2), 41.10.3(b)(1-3), 40 CFR 75.70(d)(1), 40 CFR 75.70(e)]
- (4) Whenever the monitoring system fails to meet the quality assurance requirements of Appendix B of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D or Appendix D of 40 CFR Part 75. [41.10.4(a), 40 CFR 75.70(f)]
- (5) The permittee shall ensure that the NO_x continuous emission monitoring system meets the equipment, installation, and performance specifications in Appendix A of 40 CFR Part 75; and is maintained according to the quality assurance and quality control procedures in Appendix B of 40 CFR Part 75; and shall record NO_x emissions in lbs./MMBtu. [40 CFR 75.10(b)]
- (6) The continuous emission monitoring system for nitrogen oxides shall complete a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute period. The permittee shall reduce the NO_x concentration and NO_x emission rate data collected by the monitors to hourly averages, computed using at least one data point in each fifteen minute quadrant of an hour where the unit combusted fuel during that quadrant of an hour. An hourly

average may be computed from at least two data points separated by a minimum of 15 minutes if data are unavailable as a result of the performance of calibration, quality assurance, or preventative maintenance activities, backups of data from the data acquisition and handling system, or recertification. The permittee shall use all valid measurements or data points collected during an hour to calculate the hourly averages. All data points collected during the hour shall be, to the extent practicable, evenly spaced over the hour. [40 CFR 75.10(d)(1)]

- (7) The permittee shall continuously measure natural gas and fuel oil flows to G009, G010 and G011. The permittee shall determine and record the heat input to G009, G010 and G011 for every hour or part of an hour any fuel is combusted following the procedures in 40 CFR 75, Appendix F. [RI-PSD-4 D.5, 41.10.2(a)(1), 40 CFR 75.10(c)]
- (8) The permittee shall ensure that the NO_x continuous emission monitoring system and each component thereof is capable of accurately measuring, recording and reporting data and shall not incur an exceedance of the full scale range, except as provided in sections 2.1.1.5, 2.1.2.5 and 2.1.4.3 of 40 CFR 75, Appendix A. [40 CFR 75.10(f)]
- (9) The emissions measurements recorded and reported in accordance with this subsection shall be used to determine compliance with the NO_x Budget emissions limitation under Condition III.B.1 and the nitrogen oxides emission limitations in conditions I.A.1.b(1)(a)-(c). [41.10.1(b), RI-PSD-4 D.10]
- (10) The permittee shall calculate hourly NO_x mass emissions (in lbs) for each emission unit by multiplying the hourly NO_x emission rate in (lbs/MMBTU) by the hourly heat input rate (in MMBTU/hr) and the unit operating time. The permittee shall also calculate quarterly and cumulative year-to-date NO_x mass emissions and cumulative NO_x mass emissions for the ozone season (in tons) by summing the hourly NO_x mass emissions according to the applicable procedures in section 8 of Appendix F of 40 CFR 75. [40 CFR 75.72(e)]
- (11) The permittee shall not use any alternative monitoring system, alternative reference method, or any other alternative for the required continuous emission monitoring system without having obtained prior written approval in accordance with subsection 41.11.5 of APC Regulation No. 41. [41.10.2(d)(1), 40 CFR 75.70(c)(1)]

- (12) The permittee shall not operate G009, G010, and G011 so as to discharge, or allow to be discharged, NO_x emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of this section and 40 CFR Part 75. [41.10.2(d)(2), 40 CFR 75.70(c)(2)]
- (13) The permittee shall not disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NO_x mass emissions discharged into the atmosphere, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of this section and 40 CFR Part 75. [41.10.2(d)(3), 40 CFR 75.70(c)(3)]
- (14) The permittee shall not retire or permanently discontinue use of the continuous emission monitoring system, any component thereof, or any other approved emission monitoring system under this section, except under any one of the following circumstances:
 - (a) During the period that the unit is covered by a retired unit exemption under section 41.14 of APC Regulation No. 41 that is in effect;
 - (b) The owner or operator is monitoring emissions from the unit with another certified monitoring system approved, in accordance with the applicable provisions of this section and 40 CFR Part 75, by the Department, for use at that unit that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or
 - (c) The NO_x authorized account representative submits notification of the date of certification testing of a replacement monitoring system in accordance with subsection 41.10.3(b)(2) of APC Regulation No. 41. [41.10.2(d)(4), 40 CFR 75.70(c)(4)]
- (15) Whenever both an audit of a monitoring system and a review of the initial certification or recertification application reveal that any system or component should not have been certified or recertified because it did not meet a particular performance specification or other requirement under subsection 41.10.3 of APC Regulation No. 41 or the applicable provisions of 40 CFR Part 75, both at the time of the initial certification or recertification application submission and at the time of the audit, the Department will issue a notice of disapproval of the certification status of such system or

component. For the purposes of this paragraph, an audit shall be either a field audit or an audit of any information submitted to the Department or the Administrator. By issuing the notice of disapproval, the Department revokes prospectively the certification status of the system or component. The data measured and recorded by the system or component shall not be considered valid quality-assured data from the date of issuance of the notification of the revoked certification status until the date and time that the permittee completes subsequently approved initial certification or recertification tests. The owner or operator shall follow the initial certification or recertification procedures in subsection 41.10.3 of APC Regulation No. 41 for each disapproved system. [41.10.4(b)]

- (16) Failure of the NO_x continuous emission monitoring system to acquire the minimum number of data points for calculation of an hourly average in paragraph (6) of this subsection shall result in the failure to obtain a valid hour of data and the loss of such component data for the entire hour. For the NO_x continuous emission monitoring system, an hourly average NO_x emission rate in lb/mmBtu is valid only if the minimum number of data points is acquired by both the NO_x pollutant concentration monitor and the diluent monitor (CO₂). If a valid hour of data is not obtained, the permittee shall estimate and record emissions for the missing hour by means of the automated data acquisition and handling system, in accordance with the applicable procedure for missing data substitution in 40 CFR 75, Subpart D. [40 CFR 75.10(d)(3)]

e. Carbon Monoxide

- (1) The continuous emission monitoring system for carbon monoxide consists of the carbon monoxide continuous emission monitor and the oxygen continuous emission monitor. [40 CFR 60, Appendix B]
- (2) The continuous emissions monitoring system for carbon monoxide must satisfy USEPA performance specifications and quality assurance procedures in 40 CFR 60, Appendices B & F, as applicable. [RI-PSD-4 D.2]
- (3) The permittee shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with the applicable requirements of 40 CFR 60 Subpart A and Appendix B. [40 CFR 60.13(d)(1)]
- (4) The continuous monitoring system for carbon monoxide shall complete a minimum of one cycle of operation (sampling, analyzing

and data recording) for each successive 15-minute period. [40 CFR 60.13(e)(2)]

- (5) The permittee shall reduce all data to 1-hour averages, computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibrations checks, zero and span adjustments shall not be included in the data averages computed. [40 CFR 60.13(h)]

f. Opacity

- (1) The continuous emissions monitoring system for opacity must satisfy USEPA performance specifications in 40 CFR 60, Appendix B, as applicable. [RI-PSD-4 D.2]
- (2) The permittee shall check the zero (or low-level value between 0 and 15 percent of span value) and span (20 to 100 percent of span value) calibration drifts at least once daily in accordance with the applicable requirements of 40 CFR 60 Subpart A and Appendix B. The optical surface exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except that, for systems using automatic zero adjustments, the optical surface shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity. [40 CFR 60.13(d)(1)]
- (3) The procedure for checking the zero and span drifts shall include a method for producing a simulated zero opacity condition and an upscale (span) opacity conditions using a certified neutral density filter or other related technique to produce a known obscuration of the light beam. Such procedures shall provide a system check of the analyzer internal optical surface and all electronic circuitry including the lamp and photodetector assembly. [40 CFR 60.13(d)(2)]
- (4) The continuous monitoring system for opacity, shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. [40 CFR 60.13(e)(1)]
- (5) The permittee shall reduce all data to 6-minute averages, computed from 36 or more data points equally spaced over each 6-minute period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibrations checks, zero and span adjustments shall not be included in the data averages computed. [40 CFR 60.13(h)]

g. Sulfur Dioxide

(1) Oil Firing

- (a) The permittee shall certify, operate and maintain, in accordance with all the requirements of 40 CFR 75, a SO₂ continuous emission monitoring system and a flow monitoring system with the automated data acquisition and handling system for measuring and recording SO₂ concentration (in ppm), volumetric gas flow (in scfh) and SO₂ mass emissions (in lb/hr and lb/day) discharged to the atmosphere. [40 CFR 75.10(a)(1), RI-PSD-4 D.9]
- (b) The permittee shall ensure that the SO₂ continuous emission monitoring system meets the equipment, installation and performance specifications in 40 CFR 75, Appendix A; and is maintained according to the quality assurance and quality control procedures in 40 CFR 75, Appendix B; and shall record SO₂ emissions in lb/hr. [40 CFR 75.10(b)]
- (c) The permittee shall ensure that the SO₂ continuous emission monitoring systems are in operation and monitoring SO₂ at all times that G009, G010 or G011 combusts any fuel except during periods of calibration, quality assurance or preventative maintenance, performed pursuant to 40 CFR 75.21 and 40 CFR 75, Appendix B, periods of repair, periods of backups of data from the data acquisition and handling system or recertification performed pursuant to 40 CFR 75.20. [40 CFR 75.10(d)]
- (d) The permittee shall ensure that the SO₂ continuous emission monitoring system is capable of completing a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute interval. [40 CFR 75.10(d)(1)]
- (e) The permittee shall reduce all SO₂ concentrations, volumetric flow and SO₂ mass emissions collected by the monitors to hourly averages. Hourly averages shall be computed using at least one data point in each fifteen minute quadrant of an hour, where the unit combusted fuel during that quadrant of an hour. Notwithstanding this requirement, an hourly average may be computed from at least two data points separated by a minimum of 15 minutes (where the unit operates for more than one quadrant of an hour) if data are unavailable as a result of the performance of calibration, quality assurance or

preventative maintenance activities pursuant to 40 CFR 75.21 and 40 CFR 75 Appendix B, backups of data from the data acquisition and handling system or recertification pursuant to 40 CFR 75.20. The permittee shall use all valid measurements or data points collected during an hour to calculate the hourly averages. All data points collected during an hour shall be, to the extent practicable, evenly spaced over the hour. [40 CFR 75.10(d)(1)]

- (f) Failure of the SO₂ pollutant concentration monitor or flow monitor to acquire the minimum number of data points for calculation of an hourly average shall result in the failure to obtain a valid hour of data and the loss of such component data for the entire hour. If a valid hour of data is not obtained, the permittee shall estimate and record emissions or flow data for the missing hour by means of the automated data acquisition and handling system, in accordance with the applicable procedure for missing data substitution in 40 CFR 75, Subpart D. [40 CFR 75.10(d)(3)]
- (g) The permittee shall ensure that the SO₂ continuous emission monitoring system and each component thereof is capable of accurately measuring, recording and reporting data and shall not incur an exceedance of the full scale range, except as provided in sections 2.1.1.5, 2.1.2.5 and 2.1.4.3 of 40 CFR 75, Appendix A. [40 CFR 75.10(f)]
- (h) The sulfur dioxide emissions measurements recorded and reported in accordance with this subsection shall be used to determine compliance with the sulfur dioxide emissions limitations in conditions I.A.1.b.(3)(b)-(c). [RI-PSD-4 D.11]

(2) Natural Gas Firing

- (a) The permittee shall certify, operate and maintain, in accordance with all the requirement of 40 CFR, a CO₂ continuous emission monitoring system and a flow monitoring system and calculate the sulfur dioxide emissions for each hour of operation as follows:

$$M_{SO2g} = ER_{SO2} \times HI_g$$

Where: M_{SO_2g} = Hourly mass of SO_2 emissions from the combustion of pipeline natural gas, lb/hr.

ER_{SO_2} = SO_2 emission rate of 0.0006 lb/MMBTU for pipeline natural gas.

HI_g = Hourly heat input of pipeline natural gas calculated using the procedures in Appendix F of 40 CFR 75, in MMBTU/hr.

$$HI_g = Q_h \left[\frac{(100 - \%H_2O)}{100F_c} \right] \left[\frac{\%CO_{2d}}{100} \right]$$

Where: Q_h = Hourly average volumetric flow rate, wet basis, scfh

F_c = 1040 scf CO_2 /MMBTU

$\%H_2O$ = Moisture content of gas in the stack, percent

$\%CO_{2d}$ = Hourly concentration of CO_2 , percent CO_2 dry basis (see 40 CFR 75 Appendix F, Section 5.2.2)

[40 CFR 75.10(a), 40CFR 75.11(e)(1) and 40 CFR 75, Appendix D]

h. Carbon Dioxide

- (1) The permittee shall certify, operate and maintain, in accordance with all the requirements of 40 CFR 75, a CO_2 continuous emission monitoring system and a flow monitoring system with the automated data acquisition and handling system for measuring and recording CO_2 concentration (in percent), volumetric gas flow (in scfh) and CO_2 mass emissions (in ton/day) discharged to the atmosphere. [40 CFR 75.10(a)(3)(i)]
- (2) The permittee shall ensure that the CO_2 continuous emission monitoring system meets the equipment, installation and performance specifications in 40 CFR 75, Appendix A; and is maintained according to the quality assurance and quality control procedures in 40 CFR 75, Appendix B. [40 CFR 75.10(b)]

- (3) The permittee shall ensure that the CO₂ continuous emission monitoring systems are in operation and monitoring CO₂ at all times that G009, G010 or G011 combusts any fuel except during periods of calibration, quality assurance or preventative maintenance, performed pursuant to 40 CFR 75.21 and 40 CFR 75, Appendix B, periods of repair, periods of backups of data from the data acquisition and handling system or recertification performed pursuant to 40 CFR 75.20. [40 CFR 75.10(d)]
- (4) The permittee shall ensure that the CO₂ continuous emission monitoring system is capable of completing a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute interval. [40 CFR 75.10(d)(1)]
- (5) The permittee shall reduce all CO₂ concentrations, volumetric flow and CO₂ mass emissions collected by the monitors to hourly averages. Hourly averages shall be computed using at least one data point in each fifteen minute quadrant of an hour, where the unit combusted fuel during that quadrant of an hour. Notwithstanding this requirement, an hourly average may be computed from at least two data points separated by a minimum of 15 minutes (where the unit operates for more than one quadrant of an hour) if data are unavailable as a result of the performance of calibration, quality assurance or preventative maintenance activities pursuant to 40 CFR 75.21 and 40 CFR 75 Appendix B, backups of data from the data acquisition and handling system or recertification pursuant to 40 CFR 75.20. The permittee shall use all valid measurements or data points collected during an hour to calculate the hourly averages. All data points collected during an hour shall be, to the extent practicable, evenly spaced over the hour. [40 CFR 75.10(d)(1)]
- (6) Failure of the CO₂ pollutant concentration monitor or flow monitor to acquire the minimum number of data points for calculation of an hourly average shall result in the failure to obtain a valid hour of data and the loss of such component data for the entire hour. If a valid hour of data is not obtained, the permittee shall estimate and record emissions or flow data for the missing hour by means of the automated data acquisition and handling system, in accordance with the applicable procedure for missing data substitution in 40 CFR 75, Subpart D. [40 CFR 75.10(d)(3)]
- (7) The permittee shall ensure that the CO₂ continuous emission monitoring system and each component thereof is capable of accurately measuring, recording and reporting data and shall not incur an exceedance of the full scale range, except as provided in sections 2.1.1.5, 2.1.2.5 and 2.1.4.3 of 40 CFR 75, Appendix A. [40 CFR 75.10(f)]

5. Recordkeeping Requirements

- a. The permittee shall maintain a record of all measurements, performance evaluations, calibration checks and maintenance or adjustments for each continuous monitor. [RI-PSD-4 F.1, 41.10.2(a)(4)]
- b. The permittee shall, on a monthly basis, no later than five (5) business days after the first of the month, determine the total quantity of nitrogen oxides discharged to the atmosphere from the three combustion turbines combined, during discretionary oil burning, for the previous month. The owner/operator shall keep records of this determination and provide such records to the Office of Air Resources upon request. [RI-PSD-4 F.2]
- c. The permittee shall, on a daily basis, determine the total quantity of sulfur dioxide discharged to the atmosphere from the three combustion turbines combined, during discretionary oil burning. The owner/operator shall keep records of this determination and provide such records to the Office of Air Resources upon request. [RI-PSD-4 F.3]
- d. The permittee shall, on a monthly basis, no later than five (5) business days after the first of the month, determine the total quantity of fuel oil combusted during discretionary oil burning for the previous month. The owner/operator shall keep records of this determination and provide such records to the Office of Air Resources upon request. [RI-PSD-4 F.4]
- e. The permittee shall maintain the following records for G009, G010 and G011:
 - (1) The hours of operation, including any start up, shut down or malfunction in the operations of the facility.
 - (2) The date, start time, end time and amount of fuel used for any period when fuel oil is burned. Records must indicate whether fuel oil was burned under discretionary oil burning, during the unavailability of natural gas or to maintain oil system readiness. [RI-PSD-4 F.9, CFR 60.7(b)]
- c. The permittee shall continuously record all data for G009, G010 and G011 when they are being fired. Continuous emission monitoring data may be used as evidence in determining the permittee's compliance/non compliance with the conditions and emission limitations contained in this Section. [RI-PSD-4 D.4]
- d. The permittee shall continuously record the natural gas and fuel oil flows to G009, G010 and G011. [RI-PSD-4 D.5]

- e. The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring devices and performance testing measurements; all CMS calibration checks; adjustments and maintenance performance on these systems or devices; and all other information required shall be recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)]

6. Reporting Requirements

- a. The permittee shall notify the Office of Air Resources, in writing, after an exceedance of any emission limitation is discovered. This notification shall be made within five (5) business days of the exceedance. Notification shall be provided on forms furnished by the Office of Air Resources and must provide all of the information requested on the form. [RI-PSD-4 F.5, 40 CFR 60.334(c)(2)]
- b. The permittee shall notify the Office of Air Resources, in writing, after the discovery that a continuous emission monitor has malfunctioned. This notification shall be made within five (5) business days of when the continuous emission monitor malfunctioned. Notification shall be provided on forms furnished by the Office of Air Resources and must provide all of the information requested on the form. [RI-PSD-4 F.6]
- c. The permittee shall notify the Office of Air Resources of any anticipated noncompliance with the terms in Section I.A. of this permit or any other applicable air pollution control rules or regulations. [RI-PSD-4 F.8]
- d. The permittee shall notify the Office of Air Resources, in writing, whenever the combined quantity of fuel oil combusted during discretionary oil burning exceeds 6,615,000 gallons for any consecutive 12-month period. [RI-PSD-4 F.7]
- e. The permittee shall submit an excess emissions and monitoring systems performance report to the Office of Air Resources quarterly. All reports shall be postmarked by the 30th day following the end of each calendar quarter. Written reports of excess emissions shall include the following information: [RI-PSD-4 F.16, 40 CFR 60.7(c)]
 - (1) The magnitude of excess emissions computed in accordance with Conditions I.A.4.d.(6), I.A.4.e.(5) and I.A.4.f.(5) of this permit, any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period, [RI-PSD-4 F.16, 40 CFR 60.7(c)(1)]
 - (2) Specific identification of each period of excess emissions that occurs during startups, shutdowns and malfunctions. The nature and cause

- of any malfunction (if known), the corrective action taken or preventative measures adopted, [RI-PSD-4 F.16, 40 CFR 60.7(c)(2)]
- (3) The date and time identifying each period during which the CMS was inoperative except for zero and span checks and the nature of the system repairs or adjustments, and [RI-PSD-4 F.16, 40 CFR 60.7(c)(3)]
 - (4) When no excess emissions have occurred or the CMS have not been inoperative, repaired or adjusted, such information shall be stated in the report. [RI-PSD-4 F.16, 40 CFR 60.7(c)(4)]
- f. The summary report form shall contain the information in Condition I.A.6.d.(1 – 4) and be in the format shown in 40 CFR 60 subsection 60.7 Figure 1 unless otherwise specified by the Office of Air Resources or the USEPA. One summary report form shall be submitted for each pollutant monitored at each affected facility. [40 CFR 60.7(d)]
 - g. If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in Condition I.A.6.d of this section need not be submitted unless requested by the Office of Air Resources or the USEPA. [60.7(d)(1)]
 - h. If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in Condition I.A.6.d of this section shall both be submitted. [60.7(d)(2)]
 - i. The Authorized Account representative for Dominion Energy Manchester Street, Inc., shall submit written notice to the Office of Air Resources and the Administrator in accordance with 40 CFR 75.61. [41.10.5]
 - j. The permittee shall have the capability of transmitting all of the collected continuous monitoring data to the Office of Air Resources office via a telemetry system. The permittee must provide all of the necessary funds to operate this equipment.[RI-PSD-4 D.8]
 - k. The permittee shall comply with the requirements of 40 CFR 75.62, except that the monitoring plan shall also include all of the information required by subpart H of 40 CFR Part 75. [41.11.2(a)]

- l. The Authorized Account Representative shall submit an application to the Office of Air Resources within 45 days after completing all initial certification or recertification tests required under Section I.A.4.d(3) including the information required under Subpart H of 40 CFR Part 75. [41.11.3(a)]
- m. The Authorized Account Representative shall submit a quarterly report for each calendar quarter. [41.11.4(a)]
- n. The NOx Authorized Account Representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR Part 75 and 40 CFR 75.64. [41.11.4(c)]
- o. Quarterly reports shall include all of the data and information required in subpart H of 40 CFR Part 75 for each NOx budget unit as well as information required in subpart G of 40 CFR Part 75. [41.11.4(c)(1)]
- p. The NOx Authorized Account Representative shall submit to the Administrator a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that: [41.11.4(d)]
 - (1) The monitoring data submitted were recorded in accordance with the applicable requirements of APC Regulation No. 41, Sections 41.10 and 41.11, and 40 CFR Part 75, including the quality assurance procedures and specifications; and [41.11.4(d)(1)]
 - (2) For a unit with add-on NOx emission controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the monitoring plan and the substitute values do not systematically underestimate NOx emissions; and [41.11.4(d)(2)]
- q. Each submission under paragraphs l, m, n, o or p of this subsection shall be submitted, signed, and certified by the NOx authorized account representative for Dominion Energy Manchester Street, Inc. Each such submission shall include the following certification statement by the NOx authorized account representative:

"I am authorized to make this submission on behalf of the owners and operators of the NOx Budget sources or NOx Budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this

document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

The Department and the Administrator will accept or act on a submission made on behalf of Dominion Energy Manchester Street, Inc. only if the submission has been made, signed, and certified in accordance with this subsection. [41.6.1(e), 41.11.1(a)]

- r. If the NOx authorized account representative for a NOx Budget unit subject to an Acid Rain Emission limitation who signed and certified any submission that is made under subpart F or G of 40 CFR Part 75 and which includes data and information required under APC Regulation No. 41, sections 41.10 and 41.11, or subpart H of 40 CFR Part 75 is not the same person as the designated representative or the alternative designated representative for the unit under 40 CFR Part 72, the submission must also be signed by the designated representative or the alternative designated representative. [41.11.1(b)]
- s. The permittee shall notify the Office of Air Resources prior to burning fuel oil in G009, G010 or G011. Such notification shall include: [RI-PSD-4 F.15]
 - (1) The date and time that fuel oil burning is expected to commence,
 - (2) The reasons for the fuel oil burning (unavailability of natural gas or discretionary oil burning), and
 - (3) The anticipated length of time fuel oil will be burned.

This requirement for prior notification does not apply to those times when oil is burned to maintain oil system readiness.

7. Other Requirements

- a. G009, G010 and G011 shall be operated consistent with the representation of the equipment in the PSD permit application. [RI-PSD-4 G.3]
- b. The permittee shall shut down emission units G009, G010 and G011 in the event of a malfunction of air pollution control devices C009, C010 and C011 that results in, or that could result in, emissions in excess of Condition I.A.1.a and I.A.1.b of the permit. G009, G010 and G011 shall remain

shutdown until the malfunction has been identified and corrected. [RI-PSD-4 G.4, 16.2]

- c. Emission units G009, G010 and G011 are subject to the requirements of the Federal New Source Performance Standard 40 CFR 60 Subpart A, "General Provisions" and GG "Stationary Gas Turbines". Compliance with all applicable provisions therein is required, unless otherwise stated in this permit. [RI-PSD-4 G.7]

8. Startup/Shutdown Conditions

- a. Startup/shutdown of G009, G010 and G011 shall be defined as that period of time from initiation of combustion turbine firing until the unit reaches steady state load operation. Steady state operation shall be reached when the combustion turbine has reached minimum load (70 Megawatts), the steam turbine is declared available for load changes and injection steam of proper quality is available from the turbine extraction system. This period shall not exceed 60 minutes for a hot start, 180 minutes for a warm start, nor 240 minutes for a cold start. A warm start shall be defined as startup when the generating unit has been down for more than 2 hours and less than or equal to 48 hours. A cold start shall be defined as startup when the generating unit has been down for more than 48 hours. Unit shutdown shall be defined as that period of time from steady state operation to cessation of combustion turbine firing. This period shall not exceed 60 minutes. [RI-PSD-4 H.1]
- b. The emission limitations of Conditions I.A.1.a and I.A.1.b shall not apply during the startup/shutdown conditions of G009, G010 and G011. [RI-PSD-4 H.2]
- c. Hourly average emission of nitrogen oxides, carbon monoxide and opacity shall not exceed the following limits during G009, G010 and G011 startup/shutdown conditions. [RI-PSD-4 H.3]

(1) Nitrogen oxides (as nitrogen dioxide(NO₂))

- (a) The concentration of nitrogen oxides discharged to the atmosphere from each stack shall not exceed 135 ppmv, on a dry basis corrected to 15 percent O₂. [RI-PSD-4 H.3.a.(1)]
- (b) The emission rate of nitrogen oxides discharged to the atmosphere from each stack shall not exceed 300 lbs/hr. [RI-PSD-4 H.3.a.(2)]

(2) Carbon monoxide (CO)

- (a) The concentration of carbon monoxide discharged to the atmosphere from each stack shall not exceed 2000 ppmv, on

a dry basis corrected to 15 percent O₂. [RI-PSD-4 H.3.b.(1)]

- (b) The emission rate of carbon monoxide discharged to the atmosphere from each stack shall not exceed 1000 lbs/hr. [RI-PSD-4 H.3.a.(2)]

(3) Opacity

Visible emission from any stack shall not exceed 10% opacity. [RI-PSD-4 H.3.c]

The average of the hourly emission rates for these emissions during each startup/shutdown period shall be used to determine compliance with Condition I.A.8.c(1-3) of this Section.

B. Requirements for Emissions Unit B001

The following requirements are applicable to:

- Emission unit B001, which is a 20.93 MMBTU/hr Cleaver Brooks Boiler, Model No. CB(LE) 200-500-200ST, which burns natural gas.

1. Emission Limitations

- a. Nitrogen oxides (as nitrogen dioxide (NO₂))

The emission rate of nitrogen oxides discharged to the atmosphere from the boiler exhaust flue shall not exceed 0.024 lbs per million BTU heat input or 0.50 lbs/hr, whichever is more stringent. [Approval No.1391(A)(1)(a)]

- b. Carbon Monoxide (CO)

The emission rate of carbon monoxide discharged to the atmosphere from the boiler exhaust flue shall not exceed 0.15 lbs per million BTU heat input or 3.14 lbs/hr, whichever is more stringent. [Approval No.1391(A)(1)(b)]

- c. Total Nonmethane Hydrocarbons (NMHC)

The emission rate of total nonmethane hydrocarbons discharged to the atmosphere from the boiler exhaust flue shall not exceed 0.012 lbs per million BTU heat input or 0.25 lbs/hr, whichever is more stringent. [Approval No.1391(A)(1)(c)]

- d. Sulfur Dioxide (SO₂)

The concentration of sulfur in the natural gas consumed in B001 shall not exceed 20 grains per 100 standard cubic foot (scf). [RI-PSD-4(A)(1)(c)(1)]

e. Opacity

Visible emissions from B001 shall not exceed 10% opacity (six-minute average). [Approval No. 1391(A)(2)] Where the presence of uncombined water is the only reason for failure to meet this requirement, such failure shall not be a violation of this permit. [1.4]

2. Operating Requirements

- a. The maximum firing rate of B001 shall not exceed 20,925 ft³/hr of natural gas. [Approval No.1391(B)(1)]
- b. Natural gas shall be the only fuel fired in B001. [Approval No.1391(B)(2)]
- c. The flue gas recirculation system shall be in full operation whenever B001 is in operation. [Approval No.1391(B)(3)]
- d. Verify proper operation of the flue gas recirculation system by using a continuous monitoring device to measure excess oxygen (O₂) in the flue gas. Upon any significant step increase of excess O₂ from normal operating conditions, conduct a visual inspection of the external flue gas recirculation valve drive linkage and compare all visible settings with those established by Cleaver Brooks. Note and correct any deviation from original visible settings prior to the next time B001 is operated. [Approval No.1391(B)(4)]
- e. Conduct a complete annual inspection of the flue gas recirculation system and its components. Check for proper operation and compare all internal and external control and drive linkage settings with those established by Cleaver Brooks. Note and correct any deviations prior to operating B001 after each such annual inspection. [Approval No.1391(B)(5)]

3. Testing Requirements

a. Opacity

Tests for determining compliance with the opacity emission limitations specified in Condition I.B.1.e of this permit shall be performed per 40 CFR 60, Appendix A, Method 9. Additionally, all observers must qualify as per 40 CFR 60, Appendix A, Method 9. [1.3.1, 1.3.2]

4. Monitoring Requirements

- a. Continuous emission monitoring equipment shall be operated and maintained to measure excess oxygen (O₂) in B001 flue gas exhaust stream. [Approval No.1391(C)(1)]

5. Record Keeping Requirements

- a. The permittee shall maintain the following records for B001: [Approval No.1391(D)(5)]
 - (1) Measure and record monthly the quantity of fuel used in the B001,
 - (2) Any significant step increase of excess O₂ from normal operating conditions,
 - (3) The annual visual inspection of the external flue gas recirculation valve drive linkage and settings with those established by Cleaver Brooks.
- b. The permittee shall maintain a record of all measurements, performance evaluations, calibration checks, and maintenance or adjustments for the O₂ continuous monitor. [Approval No.1391(D)(6), 40 CFR 60.7(f)]
- c. The permittee shall record and maintain records of the amount of fuel combusted during each day. [40 CFR 60.48c(g)]
- d. The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of B001; or any periods during which the monitoring device is inoperative. [40 CFR 60.7(b)]

6. Reporting Requirements

- a. The permittee shall notify the Office of Air Resources of any anticipated noncompliance with the terms in Section I.B. of this permit or any other applicable air pollution control rules and regulations. [Approval No. 1391(D)(7)]

7. Other Permit Conditions

- a. To the extent consistent with the requirements in Section I.B. of this permit and applicable federal and state laws, the equipment shall be operated in accordance with the representation of the equipment in the preconstruction permit application. [Approval No. 1391(E)(1)]
- b. Emission unit B001 is subject to the requirements of the Federal New Source Performance Standards 40 CFR 60 Subparts A, (General Provisions) and Subpart Dc (Small Industrial-Commercial-Institutional Steam Generating Units).

C. Requirements for Emission Unit G001

The following Requirements are applicable to:

- Emission unit G001, which is a 360 BHP Clarke/John Deere Model JW6H-UF60 engine which burns diesel fuel. Emission unit G001 is a emergency diesel fire pump engine.

1. Emission Limitations

a. Opacity

Visible emissions from G001 shall not exceed 10% opacity (six-minute average). [RI-PSD-4 C.2, Approval No. 1391(A)(2)] Where the presence of uncombined water is the only reason for failure to meet this requirement, such failure shall not be a violation of this permit. [1.4]

b. Sulfur oxides

Unless the Director declares in writing after a hearing that a shortage of low sulfur fuel oil exists, the permittee shall not use or store fuel oil with a sulfur content greater than 1.0%. [8.2]

2. Operating Requirements

- a. G001 shall be operated less than 500 hours during any consecutive twelve (12) month period. If the hours of operation for G001 exceeds 500 hours in any 12 month period, the unit shall immediately be in compliance with RACT as specified in APC Regulation No. 27. [27.2.3]

3. Monitoring Requirements

- a. The permittee shall maintain a non-resetable elapsed time meter on G001 to indicate, in cumulative hours, the elapsed engine operating time. [27.6.10(b)]

4. Testing Requirements

a. Opacity

Tests for determining compliance with the opacity emission limitations specified in Condition I.C.1.a of this permit shall be performed per 40 CFR 60, Appendix A, Method 9. Additionally, all observers must qualify as per 40 CFR 60, Appendix A, Method 9. [1.3.1, 1.3.2]

b. Sulfur oxides

Compliance with the sulfur limitations contained in Condition I.C.1.b of this permit shall be determined by the procedures referenced in Condition II.U.2 of this permit.

5. Recordkeeping Requirements

- a. The permittee shall on a monthly basis, no later than five (5) days after the first of each month, determine and record the hours of operation for G001 for the previous twelve (12) month period. [27.6.10(c)]

6. Reporting Requirements

- a. The permittee shall notify the Office of Air Resources, in writing, whenever the hours of operation in any twelve (12) month period exceeds 500 hours for G001. [27.6.10(d)]

D. Requirements for Emissions Unit D001

The following requirements are applicable to:

- Emission unit D001, which is a Graymills Dip Tank Degreaser, Model No. 800

1. Operating Requirements

- a. Covers and dipping/rotating baskets shall be constructed of nonporous or nonabsorbent material. Covers must form a tight seal with the sides of D001 and have no gaps or holes. [36.4.1]
- b. When the cover of D001 is open, drafts at the same elevation as the tanks lip must not be greater than 40 m/min. (130 ft/min.) when measured 1 to 2 meters (3 to 7 feet) upwind. [36.4.2]
- c. Leaks shall be repaired immediately or D001 shall be shut down [36.4.3]
- d. Equipment used in D001 shall display a conspicuous summary of proper operating procedures consistent with minimizing emissions of organic solvents. [36.4.4]
- e. Spills shall be wiped up immediately. The wipe rags shall be stored in covered containers. [36.4.6]
- f. Porous or absorbent materials, such as sponges, fabrics, wood, or paper products, shall not be cleaned in D001. [36.4.7]

- g. Parts baskets or parts shall be drained under the cover and shall not be removed from D001 for at least 15 seconds or until dripping ceases and the pieces are visually dry, whichever is longer. [36.4.8]
- h. Parts with cavities or blind holes shall be tipped or rotated while draining before being removed from the vapor zone. [36.4.9]
- i. Parts shall be oriented for best drainage. [36.4.10]
- j. When solvent is added to or drained from D001, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface. [36.4.11]
- k. Solvent, waste solvent, still bottoms, and sump bottoms shall be stored in covered containers and waste solvent transferal or disposal shall not allow greater than 20 percent of the waste solvent (by weight) to evaporate into the atmosphere. [36.4.12]
- l. D001 shall be maintained as recommended by the manufacturer of the equipment. [36.4.13]
- m. Operators must receive training in proper solvent cleaning procedures and, if requested by representatives of the Office of Air Resources or the EPA during an inspection, shall complete and pass the applicable sections of the test on those procedures as shown in Appendix A of APC Regulation No. 36. [36.4.14]
- n. D001 shall be equipped with an attached cover, below the lip exhaust, that can be operated easily with one hand. The covers shall be closed at all times except during parts entry and removal. [36.5.1]
- o. A freeboard ratio greater than or equal to 0.75 shall be used to control solvent emissions from D001. [36.5.3]
- p. If a flexible hose or flushing device is used, flushing shall be performed only within the freeboard zone of D001. [36.5.4]
- q. The height of solvent in D001 shall not exceed the manufacturer's fill-line for that machine. [36.5.6]

2. Recordkeeping Requirements

- a. The permittee of D001 shall maintain records of training provided to the cleaning machine operators for the lifetime of the units and shall maintain the following records for a period of five years: [36.10.4]

- (1) The amount and type of solvent used in D001 for each year, and [36.10.4(a)]
- (2) The date and type of each equipment malfunction or leak and the date the malfunction or leak is repaired. [36.10.4(b)]

E. Requirements for Emissions Units T010 and T011

The following Requirements are applicable to:

- Emission unit T010, which is a 1,050,000 gallon Distillate Oil Storage Tank. T010 is equipped with a Fixed Roof.
- Emission unit T011, which is a 5,712,000 gallon Distillate Oil Storage Tank. T011 is equipped with a Fixed Roof.

1. Reporting Requirements

- a. The permittee shall keep readily accessible records showing the dimension of T010 and T011 and an analysis showing the capacity of T010 and T011. [40 CFR 60.116b(b)]
- b. The record required by Condition I.E.1.a of this permit shall be kept for the life of the source. [40 CFR 60.116b(a)]

F. Facility Requirements

1. The permittee shall file a completed Air Toxics Operating Permit with the Office of Air Resources within 60 days of written notice from the Director. [22.5.2] [**Not Federally Enforceable**]

G. Alternative Operating Scenario

When SCR is used to meet the emission limitations in conditions I.A.1. the following conditions are applicable in addition to those conditions in section I.A. of this permit.

1. Emission Limitations

- a. Natural Gas Firing
 - (1) Ammonia (NH₃)
 - (a) The concentration of ammonia discharged to the atmosphere from each stack shall not exceed 10 ppmv, on a dry basis, corrected to 15 percent O₂ (1 hour average). [RI-PSD-4 A.1.f.(1)]

- (b) The emission rate of ammonia discharged to the atmosphere from each stack shall not exceed 18.0 lbs/hr. [RI-PSD-4 A.1.f.(2)]

b. Oil Firing

(1) Ammonia (NH₃)

- (a) The concentration of ammonia discharged to the atmosphere from each stack shall not exceed 10 ppmv, on a dry basis, corrected to 15 percent O₂ (1-hour average). [RI-PSD-4 A.2.f.(1)]
- (b) The emission rate of ammonia discharged to the atmosphere from each stack shall not exceed 18.0 lbs/hr. [RI-PSD-4 A.2.f.(2)]

2. Operating Requirements

- a. C009, C010 and C011 shall be operated and maintained according to its design specifications and in a manner consistent with good air pollution control practices for minimizing emissions. [16.1]

3. Monitoring Requirements

- a. The permittee shall continuously measure the catalyst bed temperature of C009, C010 and C011. [RI-PSD-4 D.7]
- b. The permittee shall monitor ammonia concentrations in the turbine flue gases by using methods as described in Letter dated November 22, 1994 from Mark E. Slade of NEC/NEP to Douglas McVay of Office of Air Resources, Letter No. NMT94-302, Attachment # 2. [RI-PSD-4 D.6]

4. Recordkeeping Requirements

- a. The permittee shall continuously record the catalyst bed temperature of C009, C010 and C011. [RI-PSD-4 D.7]
- b. The permittee shall record ammonia concentrations in the turbine flue gases by using methods as described in Letter dated November 22, 1994 from Mark E. Slade of NEC/NEP to Douglas McVay of Office of Air Resources, Letter No. NMT94-302, Attachment # 2. [RI-PSD-4 D.6]
- c. The permittee shall maintain the following records:
 - (1) Any malfunction of C009, C010 and C011. [RI-PSD-4 F.9, CFR 60.7(b)]

5. Other Permit Conditions

- a. There shall be no by passing of C009, C010 and C011 during start-up, operation or shutdown. Ammonia will not be injected during startup or shutdown unless the catalyst bed in the SCR system is at, or above, the manufacturer's specified minimum operating temperature. [RI-PSD-4 G.1]
- b. The permittee shall shut down emission units G009, G010 and G011 in the event of a malfunction of air pollution control devices C009, C010 and C011 that results in, or that could result in, emissions in excess of Condition I.A.1.a and I.A.1.b of this permit. G009, G010 and G011 shall remain shutdown until the malfunction has been identified and corrected. [RI-PSD-4 G.4, 16.2]

SECTION II. GENERAL CONDITIONS

A. Annual Emissions Fee Payment

The permittee shall pay an annual emissions fee as established in Air Pollution Control Regulation No. 28 "Operating Permit Fees". [29.6.8(d)]

B. Permit Renewal and Expiration

This permit is issued for a fixed term of 5 years. The permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least 12 months prior to the date of permit expiration. Upon receipt of a complete and timely application for renewal, this source may continue to operate subject to final action by the Office of Air Resources on the renewal application. This protection shall cease to apply if, subsequent to a completeness determination, the applicant fails to submit by the deadline specified in writing by the Office of Air Resources any additional information identified as being needed to process the application. The application for renewal shall include the current permit number, description of permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. [29.6.8(a), 29.4.2(c), 29.4.6]

C. Transfer of Ownership or Operation

This permit is nontransferable by the permittee. Future owners and operators must obtain a new operating permit from the Office of Air Resources. A change in ownership or operational control of this source is treated as an administrative permit amendment if no other change in this permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Office of Air Resources. [29.10.1(a)(4)]

D. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege. [29.6.8(c)(4)]

E. Submissions

1. Reports, test data, monitoring data, notifications, and requests for renewal shall be submitted to :

RIDEM - Office Air Resources
Compliance Assurance Section
235 Promenade St. Room 230
Providence, RI 02908

2. Any records, compliance certifications and monitoring data required by the provisions of this permit to be submitted to USEPA shall be sent to:

USEPA Region I
Office of Environmental Stewardship
Director, Air Compliance Program
Attn: Air Compliance Clerk
One Congress St. Suite 1100 (SEA)
Boston, MA 02114 - 2023

3. Any document submitted shall be certified as being true, accurate, and complete by a responsible official. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. [29.6.8(e)]

F. Inspection and Entry

1. Employees of the Office of Air Resources and its authorized representatives shall be allowed to enter this facility at all reasonable times for the purpose of:
 - a. having access to and copying at reasonable times any records that must be kept under the conditions of this permit;
 - b. inspecting at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - c. sampling or monitoring, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.[RIGL 23-23-5(7), 29.6.8(f)(1-4), RI-PSD-4 G.5, Approval No. 1391(E)(2)]

Nothing in this condition shall limit the ability of EPA to inspect or enter the premises of the permittee under Section 114 or other provisions of the Clean Air Act.

G. Compliance

1. The permittee must comply with all conditions of this permit. Any noncompliance with a federally enforceable permit condition constitutes a violation of the Clean Air Act and is grounds for enforcement action, for permit termination, revocation and reissuance or modification, or for denial of a permit renewal application. Any noncompliance with a permit condition designated as state only enforceable constitutes a violation of state rules only and is grounds for enforcement action, for permit termination, revocation and reissuance or modification, or for denial of a permit renewal application. [29.6.8(c)(1)]

2. For each unit at the facility for which an applicable requirement becomes effective during the permit term, the permittee shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement. [29.6.5(a)]
3. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [29.6.8(c)(2)]

H. Excess Emissions Due to an Emergency

As the term is used in this condition an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of this source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes this source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. [29.6.11(b)]

Technology-based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain a health based air quality standard.

The permittee may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency. To do so, the permittee shall demonstrate the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that: [29.6.11(a) & 29.6.11(c)]

1. an emergency occurred and that the permittee can identify the cause(s) of the emergency; [29.6.11(c)(1)]
2. the permitted facility was at the time being properly operated; [29.6.11(c)(2)]
3. during the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards, or other requirements in this permit; and [29.6.11(c)(3)]
4. the permittee submitted notice of the emergency to the Office of Air Resources within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This notice fulfills the requirements of Condition II.AA.3 of this permit. [29.6.11(c)(4)]

The permittee shall have the burden of proof in seeking to establish the occurrence of an emergency. [29.6.11(d)]

I. Duty to Provide Information

The permittee shall furnish to the Office of Air Resources, within a reasonable time, any information that the Office of Air Resources may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Office of Air Resources copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. [29.6.8(c)(5)]

J. Duty to Supplement

The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the Office of Air Resources. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit. [29.5.4]

K. Reopening for Cause

The Office of Air Resources will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:

1. Additional requirements under the Clean Air Act become applicable to a major source 3 or more years prior to the expiration date of this permit. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit, unless this permit or any of its terms and conditions has been extended. [29.6.13(a)]
2. The Office of Air Resources or the Administrator determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. [29.6.13(c)]
3. The Office of Air Resources or the Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [29.6.13(d)]

Reopenings shall not be initiated before a notice of intent to reopen is provided to the permittee by the Office of Air Resources at least 30 days in advance of the date that this permit is to be reopened, except that the Office of Air Resources may provide a shorter time period (but not less than 5 days) in the case of an emergency. [29.9.5(b)]

Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable. [29.9.5(a)]

All permit conditions remain in effect until such time as the Office of Air Resources takes final action. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [§70.6(a)(6)(iii)]

L. Severability Clause

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [29.6.8(b)]

M. Off-Permit Changes

1. The permittee is allowed to make certain changes that are not addressed or prohibited by this permit without a permit revision, provided that the following conditions are met: [29.11.2(a)]
 - a. Each such change shall not violate any term or condition of this permit. [29.11.2(b)]
 - b. Each change shall comply with all applicable requirements. [29.11.2(b)]
 - c. Changes under this provision may not include changes or activities subject to any requirement under Title IV or modifications under any provision of Title I of the Clean Air Act. [29.11.2(a)]
 - d. Before the permit change is made, the permittee must provide contemporaneous written notice to the Office of Air Resources and the USEPA Region I, except for changes that qualify as insignificant activities in Appendix A of APC Regulation No. 29. This notice shall describe each change, including the date, and change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change. [29.11.2(c)]
 - e. The permit shield does not apply to changes made under this provision. [29.11.2(d)]
 - f. The permittee shall keep a record describing changes made at the stationary source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes, including any other data

necessary to show compliance with applicable ambient air quality standards.
The record shall reside at the permittee's facility. [29.11.2(e), 60.7(a)(4)]

2. Changes made pursuant to this provision shall not be exempt from the requirement to obtain a minor source permit pursuant to the requirements of Air Pollution Control Regulation No. 9, if applicable. [29.11.2(a)]
3. Changes made pursuant to this provision shall be incorporated into this permit at the time of renewal. [29.11.2(f)]

N. Section 502(b)(10) Changes

1. The permittee is allowed to make changes within this permitted facility that contravene the specific terms of this permit without applying for a permit revision, provided the changes do not exceed the emissions allowable under this permit, whether expressed therein as a rate of emissions or in terms of total emissions and are not Title I modifications. This class of changes does not include:
 - a. changes that would violate applicable requirements; or
 - b. changes to federally-enforceable permit terms or conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements. [29.11.1(a), 29.1.36]
2. The permittee shall provide written notice to the Office of Air Resources and the USEPA Region I for any change made under this provision. The notice must be received by the Office of Air Resources no later than fourteen (14) days in advance of the proposed changes. The notice shall include information describing the nature of the change, the effect of the change on the emission of any air contaminant, the scheduled completion date of the planned change and identify any permit terms or conditions that are no longer applicable as a result of the change. The permittee shall attach each notice to its copy of this permit. [29.11.1(a)(1), 29.11.1(a)(2)]
3. The permittee shall be allowed to make such change proposed in its notice the day following the last day of the advance notice described in paragraph 2 if the Office of Air Resources has not responded nor objected to the proposed change on or before that day. [29.11.1(b)]
4. Any permit shield provided in this permit does not apply to changes made under this provision. If subsequent changes cause the permittee's operations and emissions to revert to those anticipated in this permit, the permittee resumes compliance with the terms and conditions of the permit, and has provided the Office of Air Resources and EPA with a minimum of fourteen (14) days advance notice of such changes in accordance with the provisions of paragraph 2, the permit shield shall be reinstated in accordance with terms and conditions stated in this permit. [29.11.1(c)]

5. Changes made pursuant to this provision shall be incorporated into the operating permit at the time of renewal. [29.11.1(d)]

O. Emissions Trading

No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit. [29.6.6(a)]

P. Emission of Air Contaminants Detrimental to Person or Property

The permittee shall not emit any air contaminant which either alone or in connection with other emissions, by reason of their concentration or duration, may be injurious to human, plant or animal life, or cause damage to property or which unreasonably interferes with the enjoyment of life or property. [7.1]

Q. Odors

1. The permittee shall not emit or cause to be emitted into the atmosphere any air contaminant or combination of air contaminants which creates an objectionable odor beyond the property line of this facility. [17.1]
2. A staff member of the Office of Air Resources shall determine by personal observation if an odor is objectionable, taking into account its nature, concentration, location, duration and source. [17.2]

R. Visible Emissions

1. Except as may be specified in other provisions of this permit, the permittee shall not emit into the atmosphere, from any emission unit, any air contaminant, for a period or periods aggregating more than three minutes in any one hour, which is greater than or equal to 20 percent opacity. [1.2] Where the presence of uncombined water is the only reason for failure to meet this requirement, such failure shall not be a violation of this permit. [1.4]
2. Tests for determining compliance with the opacity limitations specified in this permit shall be performed per 40 CFR 60, Appendix A, Method 9. Additionally, all observers must qualify as per 40 CFR 60, Appendix A, Method 9. [1.3.1, 1.3.2]

S. Open Fires

It shall be unlawful for the permittee to burn any material in an open fire, except as provided in APC Regulation No. 4, Section 4.3. [4.2]

T. Construction Permits

It shall be unlawful for the permittee to construct, install, modify or cause the construction, installation or modification of any stationary source subject to the provisions of APC Regulation No. 9 without obtaining either a minor source permit or a major source permit from the Director. [9.2.1]

U. Sulfur in Fuel

1. Except as may be specified in other provisions of this permit, unless the Director declares in writing after a hearing that a shortage of low sulfur fuel exists, the permittee shall not use or store fuel oil with a sulfur content greater than 1.0%, except for use with motor vehicles. [8.2, 8.3.6]
2. Compliance with the sulfur in fuel limitations contained in this section shall be determined by the procedures listed below or by another method deemed equivalent by the Director and USEPA: [29.6.3(a)]
 - a. For each shipment of fuel oil, the permittee shall obtain a certification from the fuel supplier which contains:
 - (1) For distillate fuel oil:
 - (a) the name of the supplier
 - (b) a statement that the oil complies with the specification for fuel oil number 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78 "Standard Specification for Fuel Oils." [27.6.4(a – b)]
 - b. As an alternative to fuel oil certification, the permittee may elect to sample the fuel oil prior to combustion. Sampling and analysis shall be conducted after each new shipment of fuel oil is received. Samples shall be collected from the fuel tank immediately after the fuel tank is filled and before any fuel oil is combusted. [8.4.1(b), 27.6.6]
 - c. All fuel oil must be sampled and analyzed according to ASTM methods which have the prior approval of or are required by the Office. [8.4.1(b), 27.6.6]
 - d. Copies of the fuel oil analysis sheets shall be maintained at the facility and be made accessible for review by the Office or designated personnel of the Office and EPA. These records shall include a certified statement, signed by a responsible official, that the records represent all of the fuel combusted during each quarter. [27.6.7]

- e. The Director may require, under his supervision, the collection of fossil fuel samples for the purpose of determining compliance with the sulfur limitations in this permit. Sampling and analysis of fossil fuels under Condition II.U.2 of this permit shall not limit the collection of samples under this condition. [8.4.3]

V. Air Pollution Episodes

Conditions justifying the proclamation of an air pollution alert, air pollution warning or air pollution emergency shall be deemed to exist whenever the Director determines that the accumulation of air pollutants in any place is attaining or has attained levels which could, if such levels are sustained or exceeded, lead to a substantial threat to the health of persons. If the governor declares an air pollution alert, air pollution warning or air pollution emergency, the permittee shall comply with the applicable requirements contained in APC Regulation No. 10. [10.1]

W. Fugitive Dust

The permittee shall not cause or permit any materials, including but not limited to sand, gravel, soil, aggregate and any other organic or inorganic solid matter capable of releasing dust, to be handled, transported, mined, quarried, stored or otherwise utilized in any way so as to cause airborne particulate matter to travel beyond the property line of the facility without taking adequate precautions to prevent particulate matter from becoming airborne. Such precaution shall be in accordance with good industrial practice as determined by the Director and/or shall be other reasonable fugitive dust prevention measures as determined by the director. [5.2]

X. Compliance Certifications

1. The permittee shall submit a certification of compliance with permit terms and conditions annually. [29.6.5(c)(1)]
2. The certification shall describe the following:
 - a. the permit term or condition that is the basis of the certification; [29.6.5(c)(3)a]
 - b. the current compliance status; [29.6.5(c)(3)b]
 - c. whether compliance was continuous or intermittent; [29.6.5(c)(3)c]
 - d. the methods used for determining compliance, currently and over the reporting period; and [29.6.5(c)(3)d]
3. All compliance certifications shall be submitted to the Office of Air Resources and to the USEPA Region I. [29.6.5(c)(4)]

4. All compliance certifications shall be certified as being true, accurate, and complete by a responsible corporate official. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. [29.6.8(e)]

Y. Permit Shield

1. Compliance with the terms and conditions of this permit shall be deemed compliance with all requirements applicable to the source in the following: RI-PSD-4, Approval No. 1391, RI APC Regulation Nos. 1, 4, 5, 6, 7, 8, 9, 10, 13, 14, 16, 17, 22, 27, 28, 29, 36, and 41, Federal Requirements 40 CFR 60, Subpart Dc, Kb, GG and Subpart A, 40 CFR 68 and 40 CFR 72, 73, 75, 77, and 78. [29.6.12(a)(1)]
2. The Office of Air Resources has determined that units G009, G010, G011, B001 G001, T010, T011 and D001, are not subject to RI APC Regulation 2, 3, 11, 12, 15, 18, 19, 20, 21, 24, 25, 26, 30, 31, 32, 33, 34, 35 and 37, Federal Requirements 40 CFR 74 and 76. [29.6.12(a)(2)]
3. Nothing in this permit shall alter or affect the following:
 - a. the provisions of Section 303 of the Clean Air Act, including the authority of EPA under that Section. [29.6.12(c)(1)]
 - b. the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [29.6.12(c)(2)]
 - c. the applicable requirements of the acid rain program consistent with Section 408 of the Clean Air Act. [29.6.12(c)(3)]
 - d. the ability of the EPA to obtain information under Section 114. [29.6.12(c)(4)]
4. If it is determined that this operating permit was issued based on inaccurate or incomplete information provided by the permittee, this permit shield shall be void as to the portions of this permit which are affected, directly or indirectly, by the inaccurate or incomplete information. [29.6.12(d)]

Z. Recordkeeping

1. The permittee shall, at the request of the Director, maintain records of and provide data on operational processes, fuel usage, raw materials, stack dimensions, exhaust gas flow rates and temperatures, emissions of air contaminants, steam or hot water generator capacities, types of equipment producing air contaminants and air pollution control systems or other data that may be necessary to determine if the facility is in compliance with air pollution control regulations. [14.2.1]

2. All records and supporting information required by this permit shall be maintained at the permittee's 40 Point Street Facility or at Jones Moving and Storage, 59 Central Street, Providence RI or at Iron Mountain Off-Site Data Protection, Greenville RI for a period of at least 5 years from the date of sample monitoring, measurement, report or application, and shall be made available to representatives of the Office of Air Resources and EPA upon request. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [14.2.1, 29.6.4(a)(2), 38.10, RI-PSD-4 F.17, Approval No. 1391(D)(8), 40 CFR 60.48c(i)]
3. The permittee shall keep records of required monitoring information that include the following:
 - a. The date, place and time of sampling or measurements; [29.6.4(a)(1)a]
 - b. The date(s) analyses were performed; [29.6.4(a)(1)b]
 - c. The company or entity that performed the analyses; [29.6.4(a)(1)c]
 - d. The analytical techniques or methods used; [29.6.4(a)(1)d]
 - e. The results of such analyses; and [29.6.4(a)(1)e]
 - f. The operating conditions as existing at the time of sampling or measurement. [29.6.4(a)(1)f]

AA. Reporting

1. The information recorded by the permittee pursuant to Condition II.Z.1 of this Section shall be summarized and reported at least annually to the Director. It shall be submitted within 45 days following the end of the reporting period which is the calendar year unless otherwise specified. [14.2.2] Information submitted pursuant to this condition will be correlated with applicable emissions and other limitations and will be available for public inspection. [14.2.3]
2. The permittee shall submit reports of any required monitoring for each semi annual period ending 30 June and 31 December of every calendar year. These reports shall be due to the Office of Air Resources no later than forty-five (45) days after the end of the reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with Condition II.X.4. [29.6.4(b)(1)]
3. Deviations from permit conditions, including those attributable to upset conditions as defined in this permit, shall be reported, in writing, within five (5) business days of the deviation, to the Office of Air Resources. A copy of any such report shall be sent to the USEPA Region I. Reports shall describe the probable cause of such

deviations, and any corrective actions or preventive measures taken. Each report must be certified by a responsible official consistent with Condition II.X.4. of this permit. [29.6.4(b)(2), RI-PSD-4 F.18]

4. The Office shall be notified in writing of any planned physical change or operational change to the emissions units and control devices identified in this permit. Such notification shall include information describing the nature of the change, information describing the effect of the change on the emissions of air contaminants and the scheduled completion date of the planned change. Any change which may result in an increased emission rate of any air contaminant shall be subject to approval of the Office. [RI-PSD-4 F.13, Approval No. 1391(D)(4) and 60.7(a)(4)]

BB. Credible Evidence

For the purpose of submitting compliance certifications or establishing whether or not the permittee has violated or is in violation of any provision of this permit, the methods used in this permit shall be used, as applicable. However, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether the permittee would have been in compliance with applicable requirements if the appropriate performance or compliance test procedures or methods had been performed. [40 CFR 51.212(c), 51.12(c), 52.33(a)]

CC. Emission Statements

1. The permittee shall submit annually an emission statement which includes information for both VOC and NO_x. if facility wide actual emissions are 25 tons per year of either pollutant. Emission statements shall be submitted to the Office of Air Resources within 45 days of the end of the calendar year. The permittee may apply to the Office of Air Resources to be allowed to discontinue submitting annual emission statements if actual emissions at the facility decrease to below 10 tons per year as a result of a permanent process change. [14.3.1] The permittee shall submit an emission statement in a format approved by the Office of Air Resources. The emission statement shall contain the following information: [14.3.2]
 - a. A certification that the information contained in the emission statement is accurate and complete to the best knowledge of the certifying individual.
 - b. The full name, title, signature, date of signature, and telephone number of the certifying individual.
 - c. Facility identification information, including the full name, physical location, mailing address, latitude, longitude, and four digit SIC code(s).
 - d. Process data pertaining to each process emitting VOC and/or NO_x, including:
 - (1) Annual and typical ozone season daily fuel use,

- (2) Annual and typical ozone season daily process rate(s), and
 - (3) Process throughput while air pollution control equipment was not in operation.
- e. Operating data pertaining to each process emitting VOC and/or NO_x during the reporting year, including:
 - (1) Percentage annual throughput,
 - (2) Average hours of operation per day during the reporting year and on a typical ozone season day,
 - (3) Average number of days of operation per week during the reporting year and during a typical ozone season week, and
 - (4) Weeks of operation during the reporting year and during the peak ozone season.
- f. Control equipment information, including:
 - (1) Specific primary and secondary control equipment for each process emitting VOC and/or NO_x,
 - (2) Current overall control efficiency for each piece of control equipment (indicated by percent capture and percent destruction or removal), and
 - (3) Control equipment downtime during the reporting year and during the peak ozone season.
- g. Emissions information, including:
 - (1) Actual annual and typical ozone season daily emissions of VOC and NO_x for each process. Emissions should be reported in tons per year and in pounds per day.
 - (2) A description of the emission calculation method and, if applicable, emission factor(s) used, and
 - (3) The calendar year for which emissions are reported.
- h. Any additional information required by the Director to document the facility's emission statements.

DD. Miscellaneous Conditions

- 1. This permit may be modified, revoked, reopened, reissued or terminated for cause. The filing of a request, by the permittee, for a permit modification, revocation and reissuance or termination or of a notification of planned changes or anticipated noncompliance does not release the permittee from the conditions of this permit. [29.6.8(c)(3)]
- 2. Any application for a permit revision need only submit information related to the proposed change. [29.4.3(c)]

3. Terms not otherwise defined in this permit shall have the meaning given to such terms in 40 CFR 60.2, the Clean Air act as amended in 1990 or the referenced regulation as applicable.
4. Where more than one condition in this permit applies to an emission unit and/or the entire facility, the most stringent condition shall apply.

SECTION III. SPECIAL CONDITIONS

A. Ozone-depleting Substances

This section contains air pollution control requirements that are applicable to this facility, and the United States Environmental Protection Agency enforces these requirements.

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers containing a class I or class II substance that is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to 40 CFR 82.106.
 - b. The placement of the required warning statement must comply with the requirements of 40 CFR 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements of 40 CFR 82.110.
 - d. No person may modify, remove or interfere with the required warning statement except as described in 40 CFR 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVAC) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices of 40 CFR 82.156.
 - b. Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment of 40 CFR 82.158.
 - c. Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d. Persons disposing of small appliances, MVACs and MVAC-like appliances (as defined in 40 CFR 82.152) must comply with recordkeeping requirements of 40 CFR 82.166.
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair equipment requirements of 40 CFR 82.156.

- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
3. If the permittee manufactures, transforms, imports or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, "Production and Consumption Controls".
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, "Servicing of Motor Vehicle Air Conditioners".

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo or system used on passenger buses using HCFC-22 refrigerant.

5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, "Significant New Alternatives Policy Program".

B. NO_x Budget Trading Program

The following requirements are applicable to:

- NO_x Budget Source: Dominion Energy Manchester Street, Inc.
(ORIS Code 03236)
- NO_x Budget Units: Unit ID No. 9 (Emission unit G009)
Unit ID No. 10 (Emission unit G010)
Unit ID No. 11 (Emission unit G011)

1. Nitrogen Oxides Requirement

- a. Starting on May 1, 2003 the permittee shall hold NO_x allowances available for compliance deductions under Condition III.B.7, as of the NO_x allowance transfer deadline, in the unit's compliance account and the source's overdraft account in an amount not less than the total NO_x emissions for the control period from the unit, as determined in accordance with the provisions of APC Regulation No. 41, Sections 41.10 and 41.11. [41.4.1(a), 41.4.1(c)]
- b. Each ton of nitrogen oxides emitted in excess of the NO_x Budget emissions limitation shall constitute a separate violation of APC Regulation No. 41, the CAA, and applicable State law. [41.4.1(b)]

- c. NO_x allowances shall be held in, deducted from, or transferred among NO_x Allowance Tracking System accounts in accordance with APC Regulation No. 41, Sections 41.5, 41.8, and 41.9. [41.4.1(d), 41.8.1, 41.8.2, 41.8.3, 41.9.1, 41.9.2, 41.9.3, 41.9.4, 41.9.7, 41.9.8]
- d. A NO_x allowance shall not be deducted, in order to comply with the requirements in Condition III.B.1(a) above, for a control period in a year prior to the year for which the NO_x allowance was allocated. [41.4.1(e)]
- e. A NO_x allowance allocated by the Department of Environmental Management or the Administrator of the United States Environmental Protection Agency under the NO_x Budget Trading Program is a limited authorization to emit one ton of nitrogen oxides in accordance with the NO_x Budget Trading Program. No provision of the NO_x Budget Trading Program, the NO_x Budget permit application, the NO_x Budget Trading Program portion of this permit, or an exemption under APC Regulation No. 41, Section 41.14 and no provision of law shall be construed to limit the authority of the United States or the State of Rhode Island to terminate or limit such authorization. [41.4.1(f)]
- f. A NO_x allowance allocated by the Department of Environmental Management or the Administrator under the NO_x Budget Trading Program does not constitute a property right. [41.4.1(g)]
- g. Upon recordation by the Administrator under section 41.8, 41.9, or 41.13 of APC Regulation No. 41, every allocation, transfer, or deduction of a NO_x allowance to or from a NO_x Budget unit's compliance account or the overdraft account of Dominion Energy Manchester Street, Inc. is deemed to amend automatically, and become a part of, this permit by operation of law without any further review. [41.4.1(h)]
- h. The initial allocation of allowances, for each control period, to Dominion Energy Manchester Street, Inc., for the allocation period 2003-2005 is 262. [41.5.2(a)]

2. Monitoring Requirements

- a. The owners and operators and, to the extent applicable, the NO_x authorized account representative of Dominion Energy Manchester Street, Inc. and each NO_x Budget unit at Dominion Energy Manchester Street, Inc. shall comply with the monitoring requirements of section 41.10 of APC Regulation No. 41 and in subpart H of 40 CFR Part 75. For purposes of complying with such requirements, the definitions in section 41.1 of APC Regulation No. 41 and in 40 CFR 72.2 shall apply, and the terms "affected unit", "designated representative", and "continuous emission monitoring system"(or "CEMS") in 40 CFR Part 75 shall be replaced by

the terms "NOx Budget unit", "NOx authorized account representative", and "continuous emission monitoring system" (or "CEMS"), respectively, as defined in section 41.1. [41.10.1(a)]

- b. The emissions measurements recorded and reported in accordance with section 41.10 of APC Regulation No. 41 shall be used to determine compliance by the unit with the NOx Budget emissions limitation under Condition III.B.1. [41.10.1(b)]

3. Excess Emission Requirements

- a. If a NOx Budget unit has excess emissions in any control period, the permittee shall:
 - (1) Surrender the NOx allowances required for deduction under Condition III.B.7.d(1); and
 - (2) Pay any fine, penalty, or assessment or comply with any other remedy imposed under Condition III.B.7.d(3). [41.4.2]

4. Recordkeeping and Reporting Requirements

- a. The permittee shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Department or the Administrator. [41.4.3(a)]
 - (1) The account certificate of representation for the NOx authorized account representative for the source and each NOx Budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with the provisions of APC Regulation No. 41, Section 41.6.5; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new account certificate of representation changing the NOx authorized account representative. [41.4.3(a)(1)]
 - (2) All emissions monitoring information, in accordance with APC Regulation No. 41, Sections 41.10 and 41.11. [41.4.3(a)(2)]
 - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under APC Regulation No. 41. [41.4.3(a)(3)]
 - (4) Copies of all documents used to complete a NO_x Budget permit application and any other submissions under APC Regulation No.

41 or to demonstrate compliance with the requirements of APC Regulation No. 41. [41.4.3(a)(4)]

- b. The NOx authorized account representative shall submit the reports and compliance certifications required under the NOx Budget Trading Program, including those under sections 41.10, 41.11, or 41.12 of APC Regulation No.41 [41.4.3(b)].
- c. For each control period, the Authorized Account Representative for Dominion Energy Manchester Street, Inc. shall submit to the Office of Air Resources and the Administrator by November 30 of that year, a compliance certification report. [41.12.1(a)]
- d. The NOx authorized account representative shall include in the compliance certification report under paragraph c of this subsection the following elements, in a format prescribed by the Administrator, concerning each unit at the source and subject to the NOx Budget emissions limitation for the control period covered by the report:
 - (1) Identification of each NOx Budget unit; [41.12.1(b)(1)]
 - (2) At the NOx authorized account representative's option, the serial numbers of the NOx allowances that are to be deducted from each unit's compliance account under Condition III.B.7 for the control period; [41.12.1(b)(2)]
 - (3) The compliance certification under paragraph e of this subsection. [41.12.1(b)(4)]
- e. In the compliance certification report under paragraph a of this subsection, the NOx authorized account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the source and the NOx Budget units at the source in compliance with the NOx Budget Trading Program, whether each NOx Budget unit for which the compliance certification is submitted was operated during the calendar year covered by the report in compliance with the requirements of the NOx Budget Trading Program applicable to the unit, including:
 - (1) Whether the unit was operated in compliance with the NOx Budget emissions limitation; [41.12.1(c)(1)]
 - (2) Whether the monitoring plan that governs the unit has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute NOx emissions to the unit, in accordance with sections 41.10 and 41.11 of APC Regulation No. 41; [41.12.1(c)(2)]

- (3) Whether all the NO_x emissions from the unit were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with sections 41.10 and 41.11 of APC Regulation No. 41. If conditional data were reported, the owner or operator shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions has been made; [41.12.1(c)(3)]
- (4) Whether the facts that form the basis for certification under section 41.10 and 41.11 APC Regulation No. 41 of each monitor at the unit, or for using an excepted monitoring method or alternative monitoring method approved under section 41.10 and 41.11, if any, has changed; and [41.12.1(c)(4)]
- (5) If a change is required to be reported under paragraph c(4) of this subsection, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification. [41.12.1(c)(5)]

5. Liability

- a. Any person who knowingly violates any requirement or prohibition of the NO_x Budget Trading Program, the NO_x Budget Trading Program portion of this permit, or an exemption under APC Regulation No. 41, Section 41.14 shall be subject to enforcement pursuant to applicable State or Federal law. [41.4.4(a)]
- b. Any person who knowingly makes a false material statement in any record, submission, or report under the NO_x Budget Trading Program shall be subject to criminal enforcement pursuant to the applicable State or Federal law. [41.4.4(b)]
- c. No permit revision shall excuse any violation of the requirements of APC Regulation No. 41 that occurs prior to the date that the revision takes effect. [41.4.4(c)]
- d. Dominion Energy Manchester Street, Inc. and each NO_x Budget unit shall meet the requirements of APC Regulation No. 41. [41.4.4(d)]
- e. Any provision of APC Regulation No. 41 that applies to Dominion Energy Manchester Street, Inc. (including a provision applicable to the NO_x authorized account representative for Dominion Energy Manchester

Street, Inc.) shall also apply to the owners and operators of Dominion Energy Manchester Street, Inc. and of the NO_x Budget units at Dominion Energy Manchester Street, Inc. [41.4.4(e)]

- f. Any provision of APC Regulation No. 41 that applies to a NO_x Budget unit (including a provision applicable to the NO_x authorized account representative of a NO_x budget unit) shall also apply to the owners and operators of such unit. [41.4.4(f)]

6. Effect on Other Authorities

- a. No provision of the NO_x Budget Trading Program, a NO_x Budget permit application, the NO_x Budget Trading Program portion of this permit, or an exemption under section 41.14 APC Regulation No. 41 shall be construed as exempting or excluding the owners and operators and, to the extent applicable, the NO_x authorized account representative for Dominion Energy Manchester Street, Inc. from compliance with any other provision of the Rhode Island State Implementation plan, a federally enforceable permit, or the CAA. [41.4.5]

7. Compliance.

- a. NO_x allowance transfer deadline. The NO_x allowances are available to be deducted for compliance with a unit's NO_x Budget emissions limitation for a control period in a given year only if the NO_x allowances:
 - (1) Were allocated for a control period in a prior year or the same year; and [41.9.5(a)(1)]
 - (2) Are held in the unit's compliance account, or the overdraft account of Dominion Energy Manchester Street, Inc., as of the NO_x allowance transfer deadline for that control period or are transferred into the compliance account or overdraft account by a NO_x allowance transfer correctly submitted for recordation under subsection 41.8.1 of APC Regulation No. 41 by the NO_x allowance transfer deadline for that control period. [41.9.5(a)(2)]
- b. Deductions for compliance.
 - (1) Following the recordation, in accordance with subsection 41.8.2 of APC Regulation No. 41, of NO_x allowance transfers submitted for recordation in the unit's compliance account or the overdraft account of Dominion Energy Manchester Street, Inc. by the NO_x allowance transfer deadline for a control period, the Administrator will deduct NO_x allowances available under paragraph a of this subsection to cover the unit's NO_x emissions (as determined in

accordance with sections 41.10 and 41.11 of APC Regulation No. 41):

- (a) From the compliance account; and [41.9.5(b)(1)(a)]
 - (b) Only if no more NOx allowances available under paragraph a of this subsection remain in the compliance account, from the overdraft account. In deducting allowances for units at the source from the overdraft account, the Administrator will begin with the unit having the compliance account with the lowest NOx Allowance Tracking System account number and end with the unit having the compliance account with the highest NOx Allowance Tracking System account number (with account numbers sorted beginning with the left-most character and ending with the right-most character and the letter characters assigned values in alphabetical order and less than all numeric characters). [41.9.5(b)(1)(b)]
- (2) The Administrator will deduct NOx allowances first under paragraph b(1)(a) of this subsection and then under paragraph b(1)(b) of this subsection:
- (a) Until the number of NOx allowances deducted for the control period equals the number of tons of NOx emissions, determined in accordance with sections 41.10 and 41.11 of APC Regulation No. 41, from the unit for the control period for which compliance is being determined; or [41.9.5(b)(2)(a)]
 - (b) Until no more NOx allowances available under paragraph a of this subsection remain in the respective account. [41.9.5(b)(2)(b)]

c. Identification of NOx allowances by serial number.

- (1) The NOx authorized account representative for each compliance account may identify by serial number the NOx allowances to be deducted from the unit's compliance account under paragraph b or d of this subsection. Such identification shall be made in the compliance certification report submitted in accordance with Condition III.B.4.c. [41.9.5(c)(1)]
- (2) First-in, first-out. The Administrator will deduct NOx allowances for a control period from the compliance account, in the absence of an identification or in the case of a partial identification of NOx allowances by serial number under paragraph c(1) of this subsection,

or the overdraft account on a first-in, first-out (FIFO) accounting basis in the following order:

- (a) Those NO_x allowances that were allocated for the control period to the unit under Condition III.B.1.h; [41.9.5(c)(2)(a)]
- (b) Those NO_x allowances that were allocated for the control period to any unit and transferred and recorded in the account pursuant to section 41.8 of APC Regulation No. 41, in order of their date of recordation; [41.9.5(c)(2)(b)]
- (c) Those NO_x allowances that were allocated for a prior control period to the unit under Condition III.B.1.h; and [41.9.5(c)(2)(c)]
- (d) Those NO_x allowances that were allocated for a prior control period to any unit and transferred and recorded in the account pursuant to section 41.8 of APC Regulation No. 41, in order of their date of recordation. [41.9.5(c)(2)(d)]

d. Deductions for excess emissions.

- (1) After making the deductions for compliance under paragraph b of this subsection, the Administrator will deduct from the unit's compliance account or the overdraft account of Dominion Energy Manchester Street, Inc. a number of NO_x allowances, allocated for a control period after the control period in which the unit has excess emissions, equal to three times the number of the unit's excess emissions. [41.9.5(d)(1)]
- (2) If the compliance account or overdraft account does not contain sufficient NO_x allowances, the Administrator will deduct the required number of NO_x allowances, regardless of the control period for which they were allocated, whenever NO_x allowances are recorded in either account. [41.9.5(d)(2)]
- (3) Any allowance deduction required under paragraph d of this subsection shall not affect the liability of the owners and operators of the NO_x Budget unit for any fine, penalty, or assessment, or their obligation to comply with any other remedy, for the same violation, as ordered under the CAA or applicable State law. The following guidelines will be followed in assessing fines, penalties or other obligations:

- (a) For purposes of determining the number of days of violation, if a NO_x Budget unit has excess emissions for a control period, each day in the control period (153 days) constitutes a day in violation unless the owners and operators of the unit demonstrate that a lesser number of days should be considered. [41.9.5(d)(3)(a)]
 - (b) Each ton of excess emissions is a separate violation. [41.9.5(d)(3)(b)]
- e. The Administrator will record in the appropriate compliance account or overdraft account all deductions from such an account pursuant to paragraphs b or d of this subsection. [41.9.5(f)]

8. Banking.

- a. NO_x allowances may be banked for future use or transfer in a compliance account, an overdraft account, or a general account, as follows:
 - (1) Any NO_x allowance that is held in a compliance account, an overdraft account, or a general account will remain in such account unless and until the NO_x allowance is deducted or transferred under Conditions III.B.9.a or b, Condition III.B.7, subsection 41.9.7, or section 41.8 of APC Regulation No. 41. [41.9.6(a)(1)]
 - (2) The Administrator will designate, as a "banked" NO_x allowance, any NO_x allowance that remains in a compliance account, an overdraft account, or a general account after the Administrator has made all deductions for a given control period from the compliance account or overdraft account pursuant to Condition III.B.7. [41.9.6(a)(2)]
- b. Each year starting in 2004, after the Administrator has completed the designation of banked NO_x allowances under paragraph a(2) of this subsection and before May 1 of the year, the Administrator will determine the extent to which banked NO_x allowances may be used for compliance in the control period for the current year, as follows:
 - (1) The Administrator will determine the total number of banked NO_x allowances held in compliance accounts, overdraft accounts, or general accounts. [41.9.6(b)(1)]
 - (2) If the total number of banked NO_x allowances determined, under paragraph b(1) of this subsection, to be held in compliance accounts, overdraft accounts, or general accounts is less than or equal to 10% of the sum of the State trading program budgets for the control period for the States in which NO_x Budget units are

located, any banked NOx allowance may be deducted for compliance in accordance with Condition III.B.7. [41.9.6(b)(2)]

- (3) If the total number of banked NOx allowances determined, under paragraph b(1) of this subsection, to be held in compliance accounts, overdraft accounts, or general accounts exceeds 10% of the sum of the State trading program budgets for the control period for the States in which NOx Budget units are located, any banked allowance may be deducted for compliance in accordance with Condition III.B.7, except as follows:
 - (a) The Administrator will determine the following ratio: 0.10 multiplied by the sum of the State trading program budgets for the control period for the States in which NOx Budget units are located and divided by the total number of banked NOx allowances determined, under paragraph b(1) of this subsection, to be held in compliance accounts, overdraft accounts, or general accounts. [41.9.6(b)(3)(a)]
 - (b) The Administrator will multiply the number of banked NOx allowances in each compliance account or overdraft account. The resulting product is the number of banked NOx allowances in the account that may be deducted for compliance in accordance with Condition III.B.7. Any banked NOx allowances in excess of the resulting product may be deducted for compliance in accordance with Condition III.B.7, except that, if such NOx allowances are used to make a deduction, two such NOx allowances must be deducted for each deduction of one NOx allowance required under Condition III.B.7. [41.9.6(b)(3)(b)]

9. Other Requirements

- a. The Department or the Administrator may review and conduct independent audits concerning any compliance certification or any other submission under the NOx Budget Trading Program and make appropriate adjustments of the information in the compliance certifications or other submissions. [41.12.2(a)]
- b. The Administrator may deduct NOx allowances from or transfer NOx allowances to a unit's compliance account or a source's overdraft account based on the information in the compliance certifications or other submissions, as adjusted under paragraph a of this subsection. [41.12.2(b)]
- c. Authorization and responsibilities of, changing of and objections concerning the NOx authorized account representative and the alternate, changes in the owners and operators and matters concerning the account

certificate of representation shall be conducted in accordance with APC Regulation No. 41, Section 41.6. [41.6.1, 41.6.2, 41.6.3, 41.6.4, 41.6.5, 41.6.6]

- d. The NO_x Budget Trading Program portion of this permit is deemed to incorporate automatically the definitions of terms under section 41.1 of APC Regulation No. 41 and, upon recordation by the Administrator under sections 41.8 or 41.9 of APC Regulation No. 41, every allocation, transfer or deduction of a NO_x allowance to or from the compliance accounts of the NO_x Budget units covered by this permit or the overdraft account of Dominion Energy Manchester Street, Inc. [41.7.5(b)]
- e. Except as provided in paragraph d of this subsection, the Department will revise the NO_x Budget Trading Program portion of this permit, as necessary, in accordance with the provisions of APC Regulation No. 29 addressing permit revisions. [41.7.7(a)]

C. Acid Rain

1. Sulfur Dioxide Requirements

- a. The permittee shall:
 - (1) Hold allowances, as of the allowance transfer deadline, in the compliance subaccount for G009, G010 or G011 (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
 - (2) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide. [40 CFR 72.9(c)(1)]
- b. Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act. [40 CFR 72.9(c)(2)]
- c. G009, G010 and G011 shall be subject to the requirements under paragraph a of this section starting January 1, 2000. [40 CFR 72.9(c)(3)(iii)]
- d. Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program. [40 CFR 72.9(c)(4)]
- e. An allowance shall not be deducted in order to comply with the requirements under paragraph a of this section prior to the calendar year for which the allowance was allocated. [40 CFR 72.9(c)(5)]

- f. An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7, 72.8, or 72.14 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. [40 CFR 72.9(c)(6)]
- g. An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right. [40 CFR 72.9(c)(7)]

2. Monitoring Requirements

- a. The permittee and, to the extent applicable, the designated representative shall comply with the monitoring requirements as provided in 40 CFR Part 75. [40 CFR 72.9(b)(1)]
- b. The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by G009, G010 and G011 with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program. [40 CFR 72.9(b)(2)]
- c. The requirements of 40 CFR Part 75 shall not affect the responsibility of the permittee to monitor emissions of other pollutants or other emissions characteristics at G009, G010 or G011 under other applicable requirements of the Act and other provisions of this operating permit. [40 CFR 72.9(b)(3)]

3. Excess Emissions Requirements

- a. The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77. [40 CFR 72.9(e)(1)]
- b. The owners and operators of an affected unit that has excess emissions in any calendar year shall:
 - (1) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR Part 77; and
 - (2) Comply with the terms of an approved offset plan, as required by 40 CFR Part 77. [40 CFR 72.9(e)(2)]

4. Recordkeeping and Reporting Requirements

- a. Unless otherwise provided, the permittee shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or the Office of Air Resources:
 - (1) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - (2) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (4) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program. [40 CFR 75.9(f)]
- b. The designated representative shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72 subpart I and 40 CFR Part 75. [40 CFR 72.9(f)(2)]

5. Liability

- a. Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7, 72.8, or 72.14, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act. [40 CFR 72.9(g)(1)]
- b. Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject

to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001. [40 CFR 72.9(g)(2)]

- c. No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect. [40 CFR 72.9(g)(3)]
- d. Each affected source and each affected unit shall meet the requirements of the Acid Rain Program. [40 CFR 72.9(g)(4)]
- e. Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source. [40 CFR 72.9(g)(5)]
- f. Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative. [40 CFR 72.9(g)(6)]
- g. Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act. [40 CFR 72.9(g)(7)]

6. Effect on Other Authorities

- a. No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7, 72.8, or 72.14 shall be construed as:
 - (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans; [40 CFR 72.9(h)(1)]

- (2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act; [40 CFR 72.9(h)(2)]
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law; [40 CFR 72.9(h)(3)]
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; [40 CFR 72.9(h)(4)]
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established. [40 CFR 72.9(h)(5)]

D. Prevention of Accidental Releases

This section contains air pollution control requirements that are applicable to this facility, and the United States Environmental Protection Agency enforces these requirements.

Your facility is subject to the requirements of the General Duty Clause, under 112(r)(1) of the CAA Amendments of 1990. This clause specifies that owners or operators of stationary sources producing, processing, handling or storing a chemical in any quantity listed in 40 CFR Part 68 or any other extremely hazardous substance have a general duty to identify hazards associated with these substances and to design, operate and maintain a safe facility, in order to prevent releases and to minimize the consequences of accidental releases which may occur.